



SDMS DocID

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9012-17-26

ORIGINAL  
(Red)

"Rite in the Rain"



ALL-WEATHER  
LEVEL

Notebook No. 311

SKF Ball Bearing Division

9012-17

Fit III 2455

## FIELD LOG DOCUMENTATION CHECKLIST

- Permit types, dates, numbers
  - Site security (fences, gates, guards, etc.)
  - Facility boundaries (engineering/permit map)
  - HNU/min-alert readings (and background)
  - Site layout map (from observations onto topo)
  - Site slope (between 2 points of contamination/disposal)
  - Presence/depth/type of cover material (any exposed waste)
  - Waste containment (e.g., presence of liner)
  - Impoundment freeboard
  - Runoff diversion/collection system
  - Physical state of waste
  - Identified farthest point of downslope contamination
  - Distance to nearest stream
  - Exact sample location
  - Waste quantity observed (dimensions of piles, number of drum etc.)
  - Reported waste quantity (manifests, disposal records, etc.)
  - On-site water supply (number of people using)
  - Distance to nearest well (in addition to local well survey)
  - Distance to nearest population/off-site building
  - Surrounding land use
  - Disposal of investigation-derived waste(s)
  - Presence of wetlands
- \_\_\_\_\_

**SITE**  
**LOCATION**  
**TDD#**  
**PROJ. MGR.**  
**DATE ISS.**  
**# LOG BOOK #**  
SITE

SKF Ball Bearing Division  
ORIGINAL  
(FWD)  
Altoona  
9012 - 17  
Shari Harris - Dunning  
1/10/91  
Fit ~~71~~ 2455

January 23, 1991

Gerald Halbedl  
Waste Coordinator  
(Maintenance Foreman I)

Gary G. Pallas  
Human Resources Manager

NUS FIT 3 representatives Shari Harris -  
Dunning and Steven Sotlung met with  
SKF Ball Bearing representatives.

Shari Harris - Dunning

1/23/91

Dilip Pandya  
Plant Engineer / Sr. Project Eng.

ORIGINAL  
(Red)

Arrived on site at  
approximately 8:00 am

Left SKF Ball Bearing  
at about 11:30 am

SHP

1/23/91

January 23, 1991

met with SKF representatives ORIGINAL  
at ~ 8:15 am. Weather cold, (Re) about  
8°F, light wind.

U.S. representative Shari Harris-Dunning  
and Steven Sotling

~ 1951 SKF Ball-Bearing started  
at Altoona, much smaller

Prior to SKF was a shirt factory  
prior to shirt factory, <sup>use</sup> was unknown.

Headquarters of U.S. is in King of Prussia.  
SKF is a Swedish company -  
biggest bearing company in world

Gothenburg, Sweden is central, home  
office. Currently largest ball-bearing division  
260 hourly employees in world  
64 salaried employees

Entire building is used / owned by SKF  
24 hr. operations

6 2/3 days a week

SHD 2 <sup>3pm</sup> - <sub>10</sub> <sup>3pm</sup> Sunday closed

1/23/91

4- 40 hr. shifts run

ORIGINAL  
(Red)

## Production

Raw matl.: Bar stock, tube  
stock, forgng - machine turned, lathe

Heat treated continuous belt gas  
furnace  $\sim 1500^{\circ}\text{F}$  1-2 hrs.

Quenched in oil, tempered, washed  
in water

Surface grinding -

outside diameter grinding

Groove grinding

No cutting oils used

Honing - involves oil

self-contained systems

grinding  
machining

semi-  
synthetic

SHD

1/23/91

## Wastes Produced

Chips - produced as result of machining  
put into hopper for site removal ORIGINAL  
(Red)

Drained, sent to scrap.

Have indoor chip hopper - on pad

Hodos - Pleasant Gap, PA, take  
scrap chip taken @ 1 ea - week

"Butt ends, steel barding, excess, etc.  
all taken to Hodos.

into skids

Quench oil in contained tank -  
no waste stream until oil is changed

Skim oil off water wash -

waste oil and water -

if mostly water - Safety Kleen as H2O

if more oil - as oil to Safety Kleen

\* is recycled

secondary containment of quench oil is  
large concrete pit

SHD

1/23/91

Quench oil in contained tank in  
concrete pit. changed approx. every  
18 mos.

ORIGINAL  
(Red)

No cutting oils are used

Approximately 3 years ago switched  
from using cutting oils to a  
synthetic coolant mixed with water.

Wastes from honing process  
a few machines

Honilo 480 castrol oil

It is filtered and reused.

There is same consumption.

Channel operations

Quench oil - tank - conveyor pulls parts and  
puts them into wash tank

Currently use synthetic coolants, instead of  
cutting oils - discontinued about 3 years ago.

SHD

1/23/91

## Grinding sludge

Hydromation - fine drys unit flat bed

Henry - wedge wire process ORIGINAL  
castrol coolants REUT

non-haz

Sludge taken to dump truck over

drain - bed taken by breaker

summix

Process of putting in a sludge press to  
drain out liquid

Coolant is closed system -

liquids are recirculated back into system

Hydromation - flat bed filter in paper  
media

Henry -

wedge wire screen

scrapes off dribs of cake  
over time + pressure  
suction

Basement - large pit with both clean & dirty  
tanks. Sump goes directly to waste tank for  
containment (secondary)

STH

1/23/91

All grinding coolants contained  
ORIGINAL

coolant in tank in <sup>(Red)</sup> basement in pit

all tanks - dirty and clean are in  
pit in basement

### Process

from tank

Ring washing - jets, clean parts go through a conveyor belt.

Cleaner: low-odor paraffin solvent

1,1,1 - ~~petrol~~ ~~ester~~ <sup>Petrol.</sup> based

1,1,1 trichloroethane

still used to clean rings

1,1,1 distillation unit, filtered & contained

1,1,1 SHD

LOPS is treated the same way

has filters to take out dirty material  
washers sit on a concrete pad and

pan for spillage - "drip pan"  
SHD ordinary containment 1/23/91 from previous equipment

Puff ban also used in ring  
washers

ORIGINAL  
(Red)

\* If spill, drains leads to central system - through

underneath all systems - trenches now filled ~~through~~ with concrete

1/23/91 SHD

pipe to waste water tank

Any exhaust fans, material is drained into waste system

tunnel - drains (trench system - concrete lined trench) type of centralized waste drainage system

— 1,1,1 is contained - distillation unit

parafin solvent is filtered (LOPS)

washers are secondarily contained with a pan.

SHD

1/23/91

After ring washing, parts gauged,  
assembled, final washing before greasing  
**ORIGINAL**

Final wash is similar to <sup>(first)</sup> first wash  
as of now only final wash is LOPS.

Then to packaging area  
before packaging - preservative for shelf life

SKF does not manufacture balls, ~~rings~~  
cages, retainers. - all purchased.

Slushing station - preserving station -

Packaged material - vast majority is  
for domestic use. Sent over entire  
area of North America.

Basic product line:  
automotive, transmission, pumps,  
compressors, blowers, superchargers

single - row  
double row

SHD

1/23/91

1st fan - Collection systems

bog type - take out any moisture  
regular filter  
vented out

SKF has monitored for VOC's,  
no high readings. No air permits,  
no stack permits

Plan to do continual monitor.  
Mountain Research conducted monitoring  
set up testing of vents

1987 - resurfacing roof - polyurethane foam  
holes for stacks - sealed over

### SITE BOUNDARIES

Penelec S (E-exits)

Courtesy Motor  
Co/Deal

Bank

(@ 14 acres)

partial fencing - over tank

SHD

1/23/91

- Security -

Back doors panic doors  
24 hr. security guards  
(original model)

"Rental cops" weekends - holidays

doors lock from inside

### Permits

changing production process

eliminated salt out of salt bath

process of reviewing processes - have  
not decided - still listed as  
large quantity generator

NPDES permit Jan 4, 1990  
non-coolant water - good to  
1995 (copy)

discharge to Mill Run Jun - Dec.

SAC

1/23/91

(w) sewage permit - sump  
Boiler blow-down

ORIGINAL

(FBI)

~1986-87. permit held.

Incinerator decommissioned in mid  
1980's. Taken out of SKF.

- Violations - none that they know  
of

Tank Removal <sup>per notified on</sup> site

• 4 tanks removed - 1988

Hydraulic oil

Lancey Consulting  
Services

Saflex - machining oil

low odor LOPS

waste-oil capped - sand

@ 6,000 gallon capacity

all tested prior to 1988

STW

1/23/91

Excavated below tanks into shale  
below 20'  
concrete foundation removed (ORIGINAL)

1970's

3 other U.S.T. removed \$6,000  
18,000-  
10,000 spill tank

November 1990 in 1980-81

- DER notified, did not show up

Tank farm - built

Maintain Research handled entire operations - hired contractor for 3 U.S.T.  
(get copy of closure report)

Next step is remediation of site by Maintain Research.

Secondary area is clean-up

SAC

1/23/91

## Tank farm

Diked area - concrete farm

10,000 tank

6,000 tanks (2)

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4,000 tank

Containment to match quantity of all tanks. 3 feet high wall

mixture of raw, LOPS, hydraulic  
10,000 tank - waste water  
4,000 tank oil skinned off top

SWMU - salt water

closed down @ 1988

no drums

concrete pad, no dike

SHD

1/23/91

1,1,1 trichloro.

SWMY

ORIGINAL

2 drums (hex)

from 1986 — present

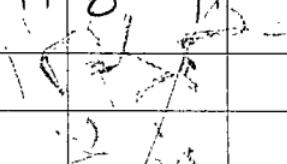
Used - dirty - recycling

safety Kleen - Johnstown, Kentucky

on floor - no diking system

sign on wall, no security,

Other drum storage areas for virgin product, on racks  
majority in chipping hopper



Empty drums, deheaded, triple rinsed - barrels sent back to vendors if possible.

Rinse water pour into work area

STAN

1/23/91

Water supply is public (Altona Water Authority)

ORIGINAL  
(Red)

No monitoring wells, no production wells.

- Mill Run ~ 1/8 mi. other side of mall

0.6 ppm background OUM

Red mini-alert - G no reading

Computer controlled nanopowder chip shaver - go to chip crusher

R<sub>3</sub> P<sub>1</sub>

\* taken by S.S. at 10:32 am

Former 1/23/91 SHD

salt waste drum storage area.

nothing there now

SWMA -

SFRP

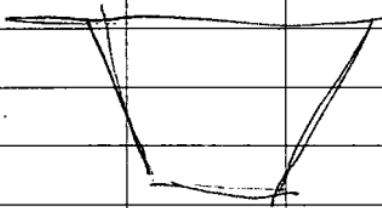
1/21/91

Heat treatment - OUM reading:

@ 700°F  
(Red)

Chip disposal area

harpoons feed into this area  
up conveyor belt into crusher  
up next conveyor to roof  
across to chip hopper - next  
room over - hanging down  
off roof (ceiling)



Drip pan - sucked out panel  
(suck - truck) to waste area

48 drums virgin product  
chip disposal area

SHAD

1/23/91

Outside chip room OVM reading at  
10 ppm (possibly from truck) (RHD)

10 drums - drum storage area  
O.D. surfacing

\* SWMu 1, 1, 1, TCEA

tumors

2 55 gal drums

< 90 days

on concrete floor

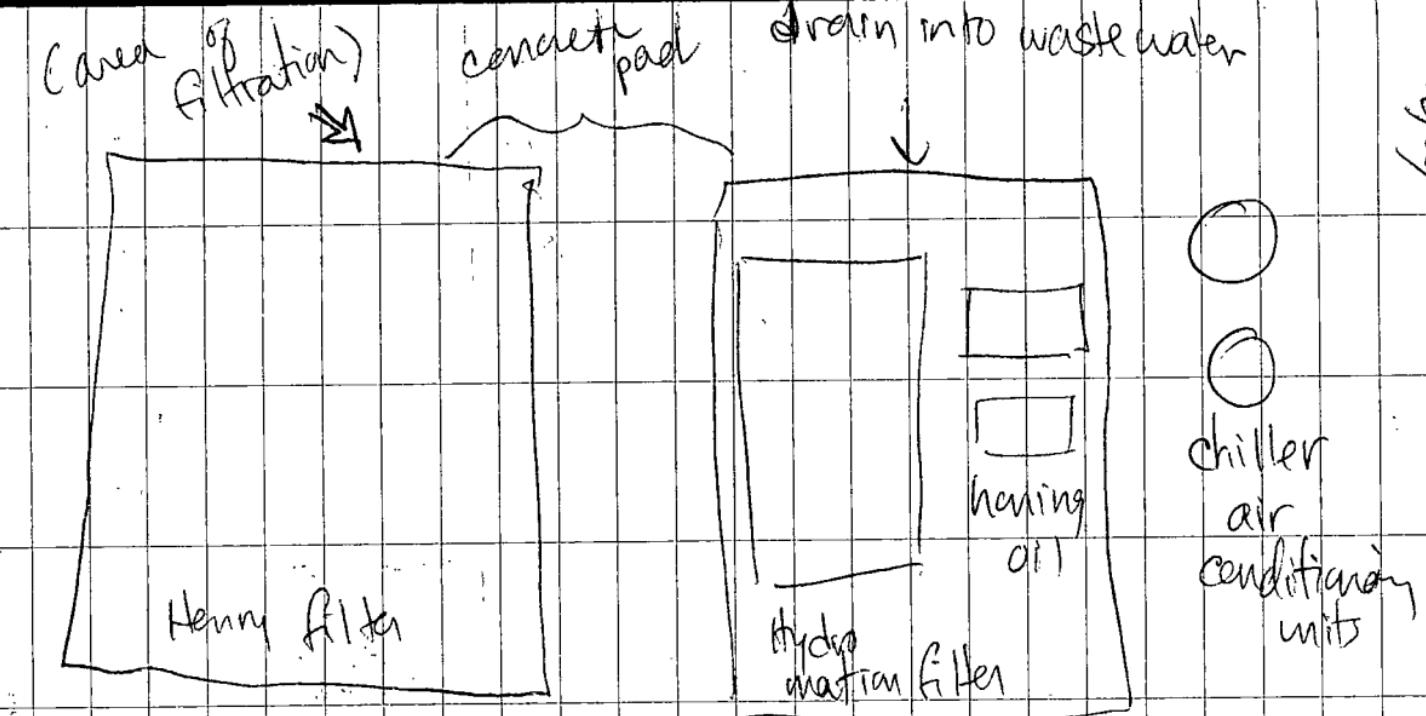
no dike

against wall

- filter goes with swarf -  
need incl. ch hat
- non-haz. SWMu

SAC

1/23/91



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5/23/01

Wastewater tanks - not currently in  
use - trencher

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expect to come into use in next  
6 mos. with ultrafilter

Hydromat - 1989

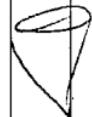
Henry filter in @ 1960's

may eventually phase out

SAC

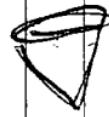
1/23/91

SKD



D

Henry



C

Henry



D

Hydro  
washing



C

Hydro  
washing



dirty  
Henry



(red)

clean  
Henry

\$200

(Service area)

~~\$2000~~

5200 gal

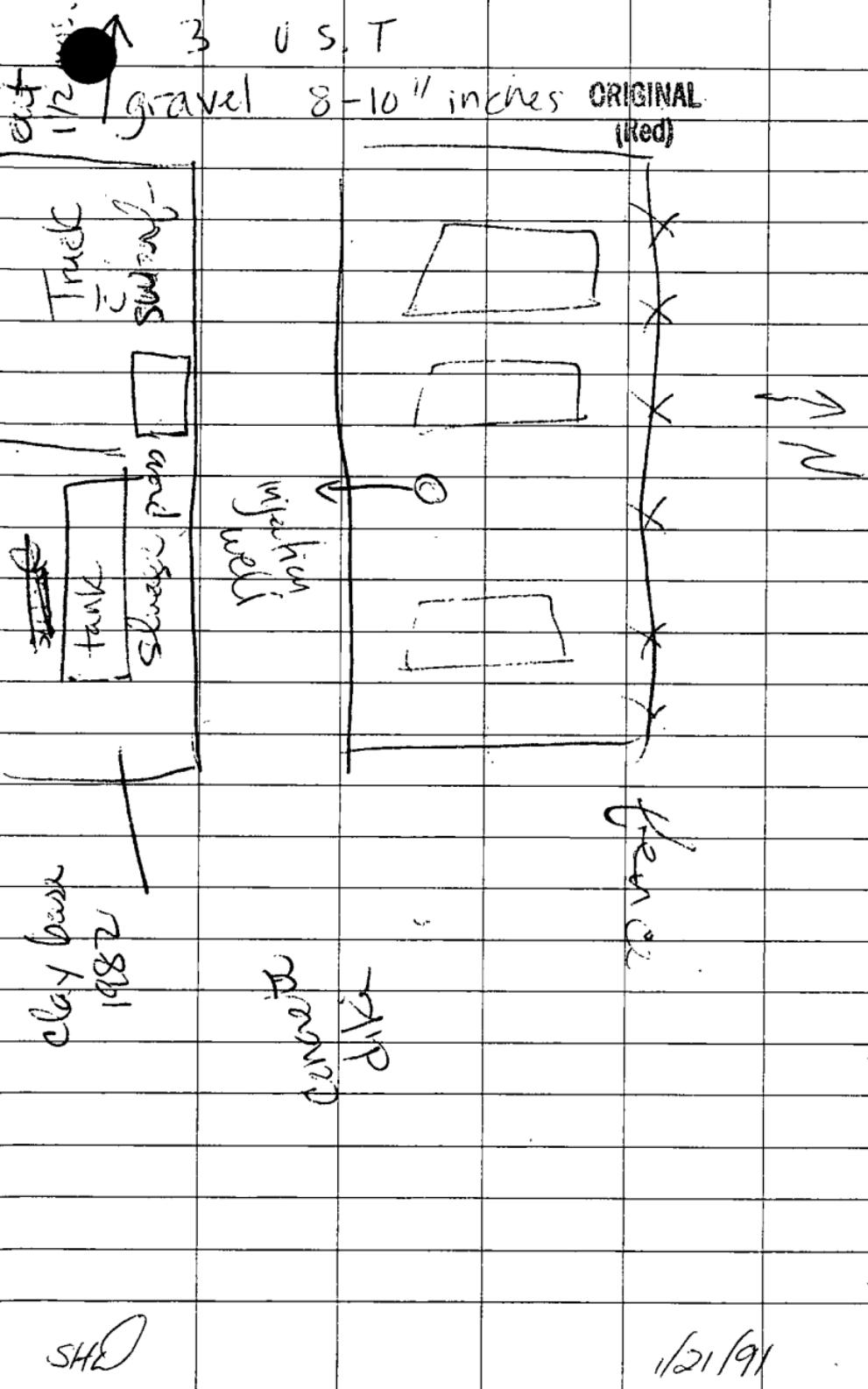
ea.

3700 gal

ea

feed back up into filter

1/23/91



SAC

Tank area  
(now)

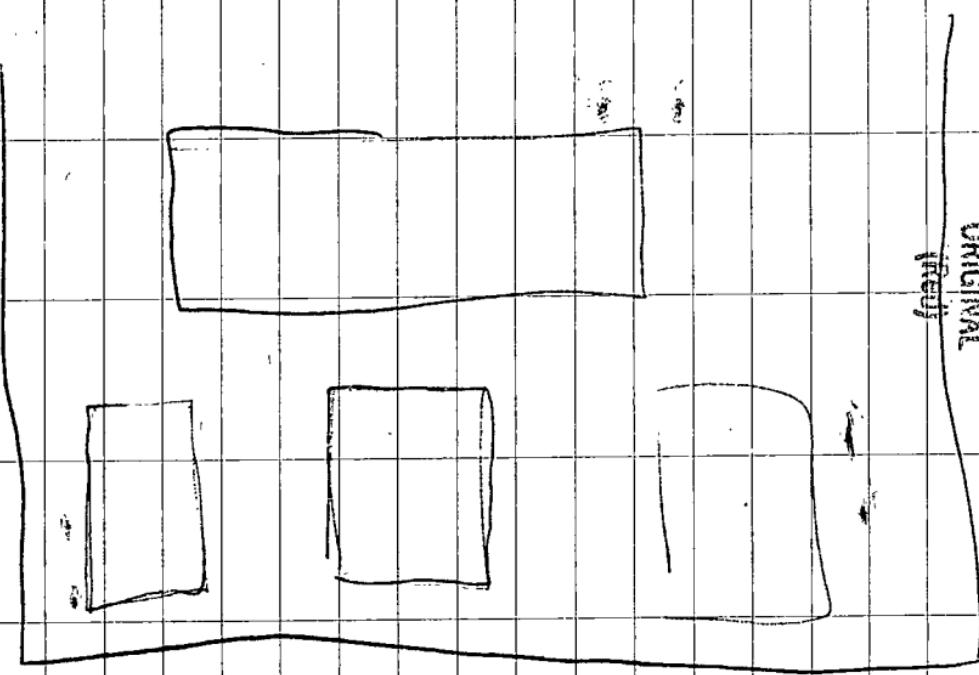
circular  
bunker

dike

1981-1985

tanks on

tank crude



1/23/91

(814) 949-2034 Mountain Research  
Kevin Svitana

9012-17

**Gary G. Pallas**



Human Resources Manager

ORIGINAL  
(Red)

SKF Bearing Industries Co.  
1000 Logan Boulevard  
Altoona, PA 16602-4096  
Tel. (814) 949-7709, Fax (814) 949-7810

two business cards attached:  
Gary G. Pallas, & Dilip Pandya

9012-17

**Dilip Pandya**



Plant Engineer (Red)

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Tel. (814) 949-7712, Fax (814) 949-7810

STEW

1/23/97

Soil on lot  
sitting on double (original  
plastic -  
separated based on where removed  
process of being simplified

late Nov 1990

all listed as non-haz. waste

Transformers - 3 w/ PCBs

SHD 1/23/91

1989 ~~PCB~~ transformers taken out  
by G.E.  
owned by ~~G.E.~~ SKF, but disposed  
of G.E.

No photographs taken due to  
malfunctioning camera

SHD

1/23/91

ORIGINAL

(Red)

All work was performed in accordance  
with the site-specific work plan.

*Shane Harts - Planning*

1/23/91

SHD

1/23/91

## **SOLID WASTE MANAGEMENT UNIT (SWMU) CHECKLIST**

- SWMU Description
- Operational Period (start-up, closure)
- Permit and Regulatory Information (NPDES, air, certified closure, etc.)
- Waste Types and Quantities (sources, waste codes)
- Waste Processing or Disposal (manifests, vendors, treatment, etc.)
- Containment Features:
  - Primary
  - Secondary
  - Tertiary
- Access Features
- Spill or Exposure Incidents
- Comments (HNU, mini-alert readings, etc.)

***FormsISWMU***

**"Rite In the Rain"** - A unique All-Weather Writing Paper created to shed water and enhance the written image. It is widely used throughout the world for recording critical field data in all kinds of weather.

Available in a variety of standard and custom printed case-bound field books, loose leaf, spiral and stapled notebooks, multi-copy sets and computer papers.

"Rite In the Rain" All-Weather Writing Papers are also available in a wide selection of rolls and sheets for printing and photocopying.

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